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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	09/747,273
Filing Date	12/22/2000
First Named Inventor	Fischer et al.
Art Unit	2684
Examiner Name	Nick Corsaro
Attorney Docket Number	100.047USR4

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Sheet 1 of 4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
nu		US-3,931,473	January 6, 1976	Ferris, Jr.	
nu		US-4,101,834	July 18, 1978	Stutt, et al.	
nu		US-4,112,488	September 5, 1978	Smith, III	
nu		US-4,144,409	March 13, 1979	Utano et al.	
nu		US-4,144,411	March 13, 1979	Frenkiel	
nu		US-4,231,116	October 28, 1980	Sekiguchi et al.	
nu		US-4,244,046	January 6, 1981	Brouard, et al.	
nu		US-4,354,167	October 12, 1982	Terreault, et al.	
nu		US-4,402,076	August 30, 1983	Krajewski	
nu		US-4,451,699	May 29, 1984	Gruenberg	
nu		US-4,456,793	June 26, 1984	Baker et al.	
nu		US-4,475,010	October 2, 1984	Huensch, et al.	
nu		US-4,485,486	November 27, 1984	Webb et al.	
nu		US-4,525,861	June 25, 1985	Freeburg	
nu		US-4,531,239	July 23, 1985	Usui	
nu		US-4,556,760	December 3, 1985	Goldman	
nu		US-4,596,051	June 17, 1986	Feldman	
nu		US-4,613,990	September 23, 1986	Halpern	
nu		US-4,669,107	May 26, 1987	Eriksson-Lennartsson	
nu		US-4,701,909	October 20, 1987	Kavehrad, et al.	
nu		US-4,704,733	November 3, 1987	Kawano	
nu		US-4,718,004	January 5, 1988	Dalal	
nu		US-4,754,451	June 28, 1988	Eng, et al.	
nu		US-4,759,051	July 19, 1988	Han	
nu		US-4,760,573	July 26, 1988	Calvignac, et al.	
nu		US-4,790,000	December 6, 1988	Kinoshita	
nu		US-4,797,947	January 10, 1989	Labadz	
nu		US-4,816,825	March 28, 1989	Chan, et al.	
nu		US-4,831,662	May 16, 1989	Kuhn	
nu		US-4,849,963	July 18, 1989	Kawano, et al.	
nu		US-4,916,460	April 10, 1990	Powell	
nu		US-4,920,533	April 24, 1990	Dufresne, et al.	
nu		US-4,932,049	June 5, 1990	Lee	
nu		US-4,959,829	September 25, 1990	Griesing	
nu		US-4,977,593	December 11, 1990	Ballance	
nu		US-5,067,147	November 19, 1991	Lee	
nu		US-5,067,173	November 19, 1991	Gordon, et al.	
nu		US-5,084,869	January 28, 1992	Russell	
nu		US-5,136,410	August 4, 1992	Heiling, et al.	
nu		US-5,138,440	August 11, 1992	Radice	

Examiner Signature	<i>W. H. H.</i>	Date Considered	02/02/05
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Art Unit	2684
Examiner Name	Nick Corsaro
Attorney Docket Number	100.047USR4

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JH		US-5,159,479	October 27, 1992	Takagi	
JH		US-5,175,867	December 29, 1992	Wejke, et al.	
JH		US-5,193,109	March 9, 1993	Lee	
JH		US-5,243,598	September 7, 1993	Lee	
JH		US-5,251,053	October 5, 1993	Heidemann	
JH		US-5,267,261	November 30, 1993	Blakeney, II et al.	
JH		US-5,272,700	December 21, 1993	Hansen, et al.	
JH		US-5,278,690	January 11, 1994	Vella-Coleiro	
JH		US-5,280,472	January 18, 1994	Gilhausen et al.	
JH		US-5,285,469	February 8, 1994	Vanderpool	
JH		US-5,297,193	March 22, 1994	Boux et al.	
JH		US-5,301,056	April 5, 1994	O'Neill	
JH		US-5,303,287	April 12, 1994	Laborde	
JH		US-5,305,308	April 19, 1994	English et al.	
JH		US-5,309,474	May 3, 1994	Gilhausen et al.	
JH		US-5,339,184	August 16, 1994	Tang	
JH		US-5,381,459	January 10, 1995	Lappington	
JH		US-5,392,453	February 21, 1995	Gudmundson et al.	
JH		US-5,442,700	August 15, 1995	Snell, et al.	
JH		US-5,587,734	December 24, 1996	Lauder, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ² - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
JH		CA-2008900	10-04-1990	Ta-Shing, et al.		
JH		DE-3707244	09-15-1988	Schalamon		
JH		EP-0166885-A2 (English Language Abstract Included)	01-08-1986	Ketterling, et al.		
JH		EP-0346925-A2	12-20-1989	Takagi		
JH		EP-0368673-A1	05-16-1990	Motley, et al.		
JH		EP-0391597-A2	10-10-1990	Chu, et al.		
JH		EP-0468688-A2	01-29-1992	Russell, et al.		
JH		FR-2345865 (English Language Abstract included)	10-21-1977	Sina SPA (IT)		
JH		JP-58-164007 (English Language Abstract included)	09-28-1983	Masatsugu, et al.		
JH		JP-3-26031 (English Language Abstract included)	02-04-1991	Tomio, et al.		
JH		JP-5-12374 (English Language Abstract included)	01-22-1993	Matsumi		

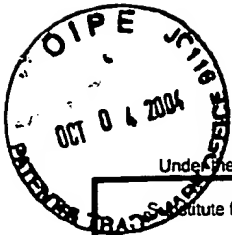
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	09/747,273		
		Filing Date	12/22/2000		
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		Art Unit	2684		
		Examiner Name	Nick Corsaro		
Sheet	3	of	4	Attorney Docket Number	100.047USR4

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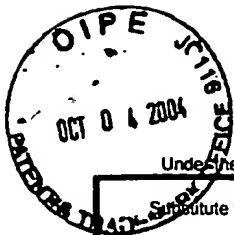
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AM		*And now a few words from your Customers . . . " Four pages. ADC Kentrox.COPYRGT. A Subsidiary of ADC Telecommunications, Inc. Aug. 1992.	
AM		ADC Kentrox, News Release, "ADC Kentrox Introduces Innovative Wireless Network Access Solution Cellular Subscribers Offered a New Level of Portable Services," Mar. 1, 1993 (3 pages).	
AM		ADC Kentrox, News Release, "First Field Trial Results Exceeds Expectations," Mar. 2, 1993 (2 pages).	
AM		ADC Kentrox Wireless System Group CityCell.TM. 824--A Positioning white paper, (Mar. 1993) CITA Trade Show.	
AM		"ADC Kentrox Introduces CityCell 824, A Replacement For Conventional Cell Sites; Company's Original Goal Was To Improve Fiber Optic T1 Links Between Cells, MTSOs," Telocator Bulletin, Feb. 1993 (1 page).	
AM		Ameritech, "Broadband Optical Transport Digital Microcell Connection Service -- Interface and Performance Specifications. A technical description of the User-Network Interface and Performance Specifications," AM TR-NIS 000117, (pages 1-26), Issue 1, Dec. 1993.	
AM		Cellular Industry, The Day Group, "New Signal Transport Technology Digitizes The Cellular Band," 2 pages, (prior to 12/22/00).	
AM		City Cell, Cellular Industry the Day Group, "ADC Kentrox CityCell Field Trial Yields Another First: Simultaneous Analog and Digital Calls," (1 page) (prior to 12/22/2000).	
AM		Cox, "A Radio System Proposal for Widespread Low-Power Tetherless Communications," IEEE Transactions on Communications, Vol. 39(2), February 1991, pages 324-335.	
AM		Gupta et al., "Land Mobile Radio Systems--A Tutorial Exposition", IEEE Communications Magazine, Vol. 23(6), June 1985, pages. 34-45.	
AM		Ishio et al., "A Two-Way Wavelength-Division-Multiplexing Transmission and its Application to a Switched TV Distribution System," Electrical Communication Laboratories, Nippon Telegraph & Telephone Public Corporation, Yokosuka, Japan and Technical Bureau, Nippon Telegraph & Telephone Public Corporation, Tokyo, Japan, (10 pages) (prior to 12/22/2000).	
AM		Kobb, "Personal Wireless," Special Report/Communications, IEEE Spectrum, Jun. 1993, pages 20-25.	
AM		Lee et al., 1993 43rd IEEE Vehicular Technology Conference, May 18-20, 1993, Personal Communication--Freedom Through Wireless Technology, PacTel Corporation, published May 18, 1993, "Intelligent Microcell Applications in PCS," pages 722-725.	

Examiner Signature	<i>John Corson</i>	Date Considered	02/08/05
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Examiner Name	Nick Corsaro	Technology Center 2600	
Attorney Docket Number	100.047USR4		
Sheet	4	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
M		Merrett et al., 41st IEEE Vehicular Technology Conference, May 19-22, 1991, Gateway to the Future Technology, 91CH2944-7, British Telecom Research Laboratories, "A Cordless Access System Using Radio-Over-Fibre Techniques," pp. 921-924.	
me		Microwaves & RF, "Digital Transport for Cellular," Feb. 1993.	
me		Microwaves & RF, Mar. 1993, "Offshore Markets Gain in Size, Competitiveness, Even the smallest industry companies are expanding their global business, despite such costly distractions as ISO 9000." (pages 33, 34, 36-39).	
me		O'Byrne, Vehicular Technology Society 42nd VTS Conference Frontiers of Technology, From Pioneers to the 21st Century, GTE Laboratories Incorporated, "TDMA and CDMA in a Fiber-Optic Environment," Vol. 2 of 2, pp. 727-731 (May 10, 1992).	
me		Russell, "New Microcell Technology Sets Cellular Carriers Free, Telephony, Mar. 1993, pp 40, 42 and 46.	
me		R. Steele. Towards a High-Capacity Digital Cellular Mobile Radio System. "Towards a High Capacity Digital Cellular Mobile Radio System," IEE Proceedings, Vol. 132, Pt.F, No. 5, Aug. 1985, pages 405-415.	
me		Tang, Fiber Optic Antenna Remoting for Multi-Sector Cellular Cell Sites. GTE Laboratories-Abstract (Conference Jun. 14-18, 1992).	
me		Titch, "Kentrox boosts coverage and capacity," Telephony Jan. 25, 1993 (1 page).	
me		Urban Microcell System Layout. GTE Laboratories (Conference Jun. 14-18, 1992)	
me		Wala, 1993 43rd IEEE Vehicular Technology Conference, May 18-20, 1993, Personal Communication-Freedom Through Wireless Technology, Waseca Technology Inc., published May 18, 1993, "A New Microcell Architecture Using Digital Optical Transport," pp. 585-588.	
me		"ZoneMaster.TM.-Maximum Coverage For High-Capacity Locations". Decibel Multi Media MicroCELL System. 4 pages. 1993 Decibel Products. 2-83-5M.	

Examiner Signature	<i>Nick Corsaro</i>	Date Considered	02/09/05
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